TDI | Texas Department of Insurance

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Product Evaluation

GDR86 | 0422

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: GDR-86

Effective Date: April 1, 2022

Re-evaluation Date: April 2026

Product Name: Models 3212, 3216, 3217, 3236, 3282, and 3285 Commercial Sectional Steel Garage Doors, Impact Resistant

Manufacturer: C.H.I. Overhead Doors
1485 Sunrise Drive
Arthur, IL 61911
(800) 677-2650

General Description:
Model 3212, 3216, 3217, 3236, 3282, and 3285 doors are commercial sectional garage doors constructed from galvanized steel with a baked on polyester finish. The 3212 model doors are constructed from 20-gauge steel with 27-gauge steel back panels and insulated with poured in urethane insulation. The 3216 and 3217 model doors are constructed from 26-gauge steel with 27-gauge steel back panels and insulated with poured in urethane insulation. The 3285 model doors are constructed from 26-gauge steel with 27-gauge steel back panels and insulated with expanded polyurethane insulation. The doors use 3" U-bars for horizontal reinforcement. Drawing number, design pressures, door width, horizontal reinforcement, and glazing options are shown in Table 1.

Product Identification: A label will be affixed to the steel sectional overhead door. The label must include the manufacturer's name (CHI Overhead Doors); series/model number of door; the

allowable design pressure rating; the design drawing number; and the test standards (ANSI/DASMA 108, ANSI/DASMA 115). The installer will verify that the label is clearly marked indicating which door assembly is being installed, in addition to verifying that the design pressure rating is clearly marked.

Limitations
Maximum Section Height: The maximum height of each door section must not exceed 24".

Maximum Width: The doors have a maximum width of 20'-02". Refer to Table 1 and the design drawings for the allowable door width dimensions.

Maximum Height: The doors have a maximum height of 24'. Refer to the design drawings for allowable door heights for specific doors.

Horizontal Reinforcement: The doors are reinforced with 3" steel U-bars. The quantity, placement, and installation of the U-bars are shown on the design drawings.

Design Drawings: Specified in Table 1.

Design Pressures: Specified in Table 1.

Glazing (Optional): Glass options are specified on the design drawings.

Impact Protection: These garage door assemblies have been tested for windborne debris resistance. These garage door assemblies will not need to be protected with an impact protective system when installed in areas where windborne debris protection is required.

Installation Instructions:
Design Drawings: The doors are to be installed as specified on the design drawings. The manufacturer will provide the design drawings with the door. The drawing numbers are specified in Table 1. Each page of the design drawing is dated March 7, 2022. Each page of the drawing is sealed by John E. Scates, P.E. and the first page is digitally signed and dated March 16, 2022 by John E. Scates, P.E.

Attachment of Doors to the Building: Doors are secured to the wall structure as specified in the Jamb Attachment details. The Jamb Attachment details include the following drawings:

BJA-101R8
BJA-102R7
BJA-103R8
BJA-104R8
BJA-105R7
BJA-105R5
BJA-106R5

Each drawing is dated March 26, 2020 and sealed by John E. Scates. Drawing BJA-101R8 is digitally signed and dated January 7, 2021.

Note: Keep the manufacturer's installation instructions, the appropriate design drawings, and the jamb attachment drawings available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.

Impact Resistant Doors

Design Drawings: Specified in Table 1.

Allowable Door Width: Specified in Table 1.

Design Pressures: Specified in Table 1.

Glazing (Optional): Glass options are specified on the design drawings.

Louvers: Not permitted.

Table 1
Models 3212, 3216, 3217, 3236, 3282, and 3285

Door Width	Horizontal Reinforcement	Design Pressure (psf)	Drawing Number
12'-02"	17 gauge, 3" U-bars	+43.0 / -48.3	Z5i-20-63518
12'-11"		+43.0 / -48.3	
14'-02"		+43.0 / -48.3	
16'-02"		+39.8 / -43.4	
16'-05"		+38.6 / -42.1	
18'-02"		+31.5 / -34.4	
20'-02"		+25.6 / -27.9	
14'-03"	17 gauge, 3" U-bars	+43.0 / -48.3	Z7i-20-63518
16'-02"		+43.0 / -48.3	
16'-05"		+43.0 / -48.3	
18'-02"		+39.0 / -44.0	
20'-02"		+31.6 / -35.7	
9'-02"	17 gauge, 3" U-bars	+49.9 / -56.7	Z7i-10-63518
9'-05"		+48.5 / -56.0	
10'-02"		+43.6 / -48.6	
9'-05"	17 gauge, 3" U-bars	+49.9 / -56.7	Z9i-10-63518
10'-02"		+49.9 / -56.7	